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PTO/SB/21 (09-04)  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/806,046	
	Filing Date	3/22/2004	
	First Named Inventor	Strack, K.	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	5	Attorney Docket Number	KJT-04-01

**Certificate**  
**FEB 13 2006**  
**of Correction**

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Certificate of Correction
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	Request for Certificate
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	Return Postcard
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	Copy of Declaration (2)
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		Copy of first page of specification
<b>Remarks</b> Error appears to be the fault of the PTO, no fee required		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name			
Signature			
Printed name	Richard A. Fagin		
Date	2/1/2006	Reg. No.	39,182

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Katherine A. Fagin	Date	1 Feb 06

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FEB 13 2006



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: Strack K. et al.  
Patent No.: 6,975,121 B2

Granted : Dec. 13, 2005

Appl. No.: 10/806,046

Title : System for measuring earth formation resistivity through an electrically conductive casing

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE OF CORRECTION - 37 CFR § 1.322**

Sir:

The referenced patent includes an error in the Title as noted on the attached Certificate of Correction. The error is believed to have been caused by the Office, and therefore no fee is believed to be required. As evidence to support the Patentee's claim of the error being caused by the Office, herewith are respectfully submitted copies of the original Declaration, a signed declaration submitted in response to a formalities letter, and the first page of the specification, all of which state the Title of the invention correctly.

Respectfully submitted,

Date: 2/1/2006

Richard A. Fagin, Reg. No. 39,182  
P.O. Box 1247  
Richmond, TX 77406-1247

Telephone: (713) 539-5006  
Facsimile: (832) 595-0133

FEB 13 2006

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 6,975,121 *B2*  
APPLICATION NO.: 10/806,046  
ISSUE DATE : December 13, 2005  
INVENTOR(S) : Strack, Kurt M. et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title of the invention should be amended to read

System for measuring earth formation resistivity through an[[d]] electrically conductive wellbore casing

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

Richard A. Fagin  
P.O. Box 1247  
Richmond, Texas 77406-1247

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**FEB 13 2006**



RULE 63 (37 C.F.R. 1.63)  
**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK  
OFFICE**

**FOR UTILITY/DESIGN  
CIP/PCT NATIONAL/PLANT  
ORIGINAL/SUBSTITUTE/SUPPLEME  
NTAL  
DECLARATIONS**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEM FOR MEASURING EARTH FORMATION RESISTIVITY THROUGH AN  
ELECTRICALLY CONDUCTIVE WELLBORE CASING**

the specification of which (CHECK applicable BOX(ES))

A. ☒ is attached hereto.

BOX(ES) → B. ☐ was filed on \_\_\_\_\_ as U.S. Application No. \_\_\_\_\_

→ C. ☐ was filed as PCT International Application No. \_\_\_\_\_ / \_\_\_\_\_  
PCT/ \_\_\_\_\_  
\_\_\_\_\_

and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International Application which designated at least one other country than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

<u>PRIOR FOREIGN APPLICATION(S)</u>	<u>Date first Laid-</u>	<u>Date Patented</u>	<u>Priority NOT Claimed</u>		
<u>Number</u>	<u>Country</u>	<u>Day/MONTH/Year Filed</u>	<u>open or Published</u>	<u>or Granted</u>	

Except as noted below, I hereby claim domestic priority benefit under 35 U.S.C. § 119(e) or § 120 and/or § 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

<u>PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)</u>	<u>Status</u>	<u>Priority NOT Claimed</u>
<u>Application No. (series code/serial no.)</u>	<u>Day/MONTH/Year Filed</u>	<u>pending, abandoned, patented</u>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please direct all correspondence to: Richard A. Fagin, 11607 Glen Knoll Ct., Houston, Texas 77077 and direct all telephone calls to 713-539-5006

FEB 13 2006

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

# **SYSTEM FOR MEASURING EARTH FORMATION RESISTIVITY THROUGH AN ELECTRICALLY CONDUCTIVE WELLBORE CASING**

the specification of which (CHECK applicable BOX(ES))  
A. is attached hereto.

BOX(ES)

→ B. ☒ was filed on 03/22/2004 as U.S. Application No. 10/806,046

→

→ C. ☐ was filed as PCT International Application No. / O n

and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56. Except as noted below, I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International Application which designated at least one other country than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International Application, filed by me or my assignee disclosing the subject matter claimed in this application and having a filing date (1) before that of the application on which priority is claimed, or (2) if no priority claimed, before the filing date of this application:

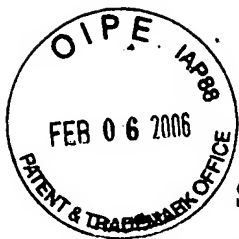
PRIOR FOREIGN APPLICATION(S)		Date first Laid- open or Published	Date Patented or Granted	Priority NOT Claimed
Number	Country			
	Day/MONTH/Year Filed			

Except as noted below, I hereby claim domestic priority benefit under 35 U.S.C. § 119(e) or § 120 and/or § 365(c) of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

PRIOR U.S. PROVISIONAL, NONPROVISIONAL AND/OR PCT APPLICATION(S)		Status pending, abandoned, patented	Priority NOT Claimed
Application No. (series code/serial no.)	Day/MONTH/Year Filed		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please direct all correspondence to: Richard A. Fagin, P.O. Box 1247, Richmond, Texas 77406-1247 and direct all telephone calls to 713-539-5006



# **SYSTEM FOR MEASURING EARTH FORMATION RESISTIVITY THROUGH AN ELECTRICALLY CONDUCTIVE WELLBORE CASING**

## **Cross-reference to related applications**

Not applicable.

## **Statement regarding federally sponsored research or development**

Not applicable.

## **Background of Invention**

### **Field of the Invention**

[0001] The invention relates generally to the field of Earth formation electrical resistivity measuring devices. More particularly, the invention relates to wellbore instruments for measuring formation resistivity from within an electrically conductive pipe or casing.

### **Background Art**

[0002] Electrical resistivity measurements of Earth formations are known in the art for determining properties of the measured Earth formations. Properties of interest include the fluid content of the pore spaces of the Earth formations. Wellbore resistivity measuring devices known in the art typically require that the Earth formations be exposed by drilling a wellbore therethrough, and that such formations remain exposed to the wellbore so that the measurements may be made from within the exposed formations.

[0003] When wellbores are completely drilled through the Earth formations of interest, frequently a steel pipe or casing is inserted into and cemented in place within the wellbore to protect the Earth formations, to prevent hydraulic communication between subsurface Earth formations, and to provide mechanical integrity to the wellbore. Steel casing is highly electrically conductive, and as a result makes it difficult to use